

## CLAIMS:

SUB A10  
1. A network connection comprising at least two wires (1, 2) for electrically connecting network users (3, 4, 5, 6, 7) in a network, characterized in that the network connection has a symmetrical structure and the two wires (1, 2) are twisted, in that the wires (1, 2) are mutually insulated to such an extent (13; 21, 22; 34; 35) that they are suitable for a symmetrical, differential data transmission, and in that the two wires (1, 2) have the same electrical resistance and jointly have a cross-section which is suitable for energy transfer from a terminal of a voltage source to network users (3, 4, 5, 6) via both wires (1, 2).

2. A network connection as claimed in claim 1, characterized in that only one wire (1; 2) in the network connection is provided with an insulation (13; 21).

3. A network connection as claimed in claim 2, characterized in that only one of the wires (1; 2) in the network connection is provided with a lacquer coating (21) used as an insulation.

4. A network connection as claimed in claim 2, characterized in that only one of the wires (1; 2) in the network connection is provided with a synthetic material coating (13) used as an insulation.

5. A network connection as claimed in claim 2, characterized in that only one of the wires (1; 2) in the network connection is surrounded by a tubing used as an insulation.

6. A network connection as claimed in claim 1, characterized in that the wires (1, 2) in the network connection are formed as stranded wires (32, 33), and in that said stranded wires (32, 33) are mutually insulated by means of an insulation (34) or a cladding (36) of one of the stranded wires (32; 33).

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7. A network connection as claimed in claim 1, characterized in that the network connection with two wires (1, 2) each has a double form, and in that the two network connections are twisted.

5 8. A network connection as claimed in claim 1, characterized in that the outer insulation (16; 25; 35) of the network connection is formed in such a way that the position of the two wires (1, 2) in the network connection is visible and in that the twisting of the two wires (1, 2) is interrupted.

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10 9. Use of a twisted double cable as a network connection in a network, in which both a symmetrical, differential data transmission via the two wires (1, 2) and an energy transfer from a terminal of a voltage source via the two wires (1, 2) of the network connection is realized.

15 10. Use of a cable having at least two wires (1, 2) for electrically connecting network users (3, 4, 5, 6, 7) in a network, wherein the network connection has a symmetrical structure and the two wires (1, 2) are twisted, the wires (1, 2) being mutually insulated to such an extent (13; 21, 22; 34; 35) that they are suitable for a symmetrical, differential data transmission, the two wires (1, 2) having the same electrical resistance and jointly having a cross-section which is suitable for energy transfer from a terminal of a voltage source to network users (3, 4, 5, 6) via both wires (1, 2).

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11. Use of a network connection as claimed in any one of claims 1 to 8, wherein the positive terminal is coupled to the network users via the network connection, and wherein the negative terminal of the voltage source is coupled to the network users via the chassis of the vehicle.

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